

OS-autoinst: Testing with Perl and openCV

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openQA - OS-autoinst

- openQA is a framework that automatically tests operating systems
- It generates keystrokes (like a normal user would)
- Fires up Virtual Machine Images via QEMU
- It captures images and acts on their contents
- It uses libopenCV for fuzzy image matching
- It is mostly Perl.
- So are the tests.
- But the rules are json.

050-xterm.pm

```
use base "x11step";
use bwmqemu;

sub is_applicable {
    my $self = shift;
    return $self->SUPER::is_applicable && !$vars{NICEVIDEO};
}

sub run() {
    my $self = shift;
    mouse_hide(1);
    x11_start_program("xterm");
    sleep 2;
    type_string "cd\n";
    sleep 1;          # go to $HOME (for KDE)
    send_key "ctrl-l"; # clear
    for ( 1 .. 13 ) { send_key "ret" }
    type_string "echo If you can see this text xterm is working.\n";
    sleep 2;
    assert_screen 'test-xterm-1', 3;
    send_key "alt-f4";
}

1;
# vim: set sw=4 et:
```

Links

- <https://openqa.opensuse.org/> [Homepage]
- <http://en.opensuse.org/openSUSE:OpenQA> [Wiki Portal]
- <https://github.com/os-autoinst/os-autoinst> [Framework Source]
- <https://github.com/os-autoinst/openQA> [Web Interface]